

# Workshop on the Physics of Weather and Climate Models

## March 20-23, 2012

### Beckman Institute Auditorium, Caltech, Pasadena

#### **TUESDAY - 20 MARCH**

- 7:30 Registration, coffee and refreshments
- 8:20 Perspective from WGNE and WCRP - C. Jakob (Monash)
- 8:30 Introduction to the Workshop - J. Teixeira (JPL)

#### **Morning Topic: High-Latitude Physics**

- 9:00 Anton Beljaars (ECMWF)
- 10:00 Break and poster viewing
- 10:30 Marika Holland (NCAR)
- 11:30 Michael Tjernstrom (MISU)
- 12:30 Lunch (on your own) and poster viewing
  
- 2:00 Parallel break-out sessions:
  - Field experiments and physics development
  - Model physics and weather prediction
  - Model physics and climate prediction
- 3:00 Break and poster viewing
- 3:30 Break-out sessions continue
  
- 4:30 Ice-breaker
- 6:00 Evening discussion - Strategies for model physics development
- 7:30 Adjourn for the day

#### **WEDNESDAY - 21 MARCH**

#### **Morning Topic: Tropical Weather and Climate**

- 8:30 Coffee and Refreshments
- 9:00 Harry Hendon (BMRC)
- 10:00 Break and poster viewing
- 10:30 David Neelin (UCLA)
- 11:30 David Randall (CSU)
- 12:30 Lunch (on your own) and poster viewing
  
- 2:00 Parallel break-out sessions
  - Global high-resolution modeling
  - Ensemble prediction and stochastic physics
  - Physics in simple climate models
- 3:00 Break and poster viewing
- 3:30 Break-out sessions continue
- 4:30 Break
  
- 5:30 Workshop Dinner - Caltech Athenaeum
- 7:00 Evening discussion - Careers in model physics
- 8:30 Adjourn for the day

## **THURSDAY – 22 MARCH**

### **Morning Topic: Clouds and Climate Physics**

- 8:30 Coffee and Refreshments
- 9:00 Chris Bretherton (UW)
- 10:00 Break and poster viewing
- 10:30 Graeme Stephens (JPL)
- 11:30 Chris Golaz (GFDL)
- 12:30 Lunch (on your own) and poster viewing
  
- 2:00 Parallel break-out sessions
  - LES and physics development
  - Satellite observations and physics development
  - Model evaluation and model physics
- 3:00 Break and poster viewing
- 3:30 Break-out sessions continue
- 4:30 Break
  
- 5:00 Evening discussion – Institutional support for model physics development
- 6:30 Adjourn for the day

## **FRIDAY - 23 MARCH**

- 8:30 Coffee and Refreshments
- 9:00 Presentations from break out sessions
- 10:00 Break
- 10:30 Presentations from break out sessions
- 11:30 Plenary discussion
- 12:30 Lunch (on your own)
- 1:30 Recommendations, student feedback and wrap-up
- 3:30 Adjourn